

ROOF ASSEMBLY AND AIRFLOW MANAGEMENT SYSTEM FOR A
TEMPERATURE CONTROLLED RAILWAY CAR

5 ABSTRACT OF THE DISCLOSURE

A roof assembly mounted on a composite box structure with an air plenum assembly attached to and extending from an interior surface of the roof assembly. The composite box structure includes a pair of end wall
10 assemblies, a pair of side wall assemblies, a floor assembly and the roof assembly. An opening may be formed in one end of the end wall assemblies to allow installing a temperature control system. An airflow management system may be incorporated into the composite box
15 structure. The composite box structure may be assembled on a railway car underframe to form a temperature controlled railway car or an insulated box car.